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Plasma Science, 2000. ICOPS 2000. IEEE Conference Record - Abstracts. The 27th IEEE International Conference on , 4-7 June 2000

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L4 ANSWER 1 OF 2 COMPENDEX COPYRIGHT 2003 EEI on STN
AN 2000(39):4318 COMPENDEX
TI Investigation of magnetic guiding of laser plasmas for
thin film deposition.
AU Redman, D.G. (Univ of Alberta, Edmonton, Alberta, Can); Roupasov, S.;
Tsui, Y.Y.; Rankin, R.; Capjack, C.E.; Fedosejevs, R.
MT ICOPS 2000 - 27th IEEE International Conference on Plasma
Science.
MO IEEE Nuclear and Plasma Science Society
ML New Orleans, LA, USA
MD 04 Jun 1900-07 Jun 1900
SO IEEE International Conference on Plasma Science 2000.p 142 2P17
CODEN: 85PSAO ISSN: 0730-9244
PY 2000
MN 57169
DT Journal
TC Experimental
LA English
AB The application of a curved magnetic field to guide the laser produced
plasma and direct it to the coating surface is proposed. It is directed to
the coating surface while using a set of baffles to stop the particles
which are not guided by the magnetic field from reaching the target. The
ion flux at the exit of such a curved magnetic solenoid is characterized
using a 20 ns duration 248 nm wavelength KrF laser pulse sources. 2 Refs.
CC 744.9 Laser Applications; 932.3 Plasma Physics; 701.2 Magnetism: Basic
Concepts and Phenomena; 714.2 Semiconductor Devices and Integrated
Circuits; 802.3 Chemical Operations
CT *Laser produced plasmas; Deposition; Magnetic field effects; Thin films
ST Magnetic guiding; Pulsed laser deposition
ET F*Kr; KrF; Kr cp; cp; F cp

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